CLAIMS

1.   A system for automatically updating a MIB of an agent by using a meta MIB in a Simple Network Management Protocol (SNMP) based network having the agent

5   and a Network Management System (NMS) therein, the system comprising:

an agent for generating an OID named as MIB_Info_Last_Change_Time, storing it in the MIB and synchronizing the meta MIB by transmitting a Trap when MIB_Info_Last_Change_Time is changed; and

an NMS, in case a trap is inputted to the NMS, for reading an information in

10   a meta MIB_Info to SNMP Walk Operation, rewriting a meta MIB information of the agent based on the read information, storing the meta MIB information in the MIB and transmitting the meta MIB information to the agent.

2.   A method for automatically updating a Management Information Base

15   (MIB) information between a Network Management System (NMS) having a MIB and an agent having a MIB by using a meta MIB, the method comprising the steps of:

rendering the agent to check whether MIB_Info_Last_Change_Time is changed or not;

20   transmitting a trap generated by the agent to the NMS in case MIB_Info_Last_Change_Time is changed, while returning to the rendering step in case MIB_Info_Last_Change_Time is not changed;

making the NMS request a Walk Operation on the MIB information, followed by receiving the trap from the agent; and

25   letting the agent rewrite and store the MIB information through result of the Walk Operation.